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## Translational biological motion stimuli for perceptual research BM3

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Since the studies of Johanson in 1973 the standard stimulus for biological motion perception has been the Point-Light Walker (PLW). This consists of a pattern of moving dots with the common translational component removed as if the target person was walking on a treadmill. The translational motion component has remained as a matter of interest only for researchers on biomechanics and its applications in fields such as rehabilitation, sports training or virtual actors design. Nevertheless, there are specific features of the translational path that may be useful for our visual system in several tasks like recognition, motion perception and action control. In this communication, we will highlight visual relevant features of the translational component in biological motion and we will address motion capture conceptual and methodological issues.

## WEDNESDAY, 8TH JULY

8:30-9:00 Wellcome Desk Open.

9:00-9:30 Opening of the Symposium.

### Symposium 1

#### Biological Motion

Moderator: Jorge A. Santos.

9:30-10:30 *Recognition of body motion: from visual sequence analysis to structured dynamic motor representations.* Martin Giese. (Invited speaker)..... [BM1]

10:30-11:00 Coffe break.

11:00-11:20 *Multimodal perception and action in biological motion.* J.A. Santos, S. Mouta, C. Mendonça, J. Ferreira. .... [BM2]

11:20-11:40 *Translational biological motion stimuli for perceptual research.* B. Aragão, L. Fontes, R. Pereira, J.A. Santos, E. Soares, M.V. Correia. .... [BM3]

11:40-12:00 *Neural correlates of 2D and 3D biological vs non-biological object perception: psychophysics, and neurophysiology.* B. Graewe, R. Farivar, P. Weerd, M. Castelo Branco. graewe..... [BM4]

12:00-12:30 Visit to the laboratory of visualization and perception.

12:30-14:30 Lunch.

### Symposium 2

#### Visual Illusions and Complexity

Moderator: Enric Munar.

14:30-14:45 *Illusions and illusionists: how to fool the brain with magic and other tricks.* S. Martínez-Conde. .... [VIC1]

14:45-15:00 *Visual complexity and beauty.* M. Nadal, E. Munar. .... [VIC2]

15:00-15:15 *Adjustment strategies in the Vertical-Horizontal illusion.* J.E. García-Albea, D. Rivera, J.M. Gavilán, M. Guasch, J. Demest. .... [VIC3]

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Universidade do Minho

# 3rd Iberian Conference on Perception

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## Abstracts Book

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